

CLAIMS

- [1] An external apparatus for mobile communication terminal comprising:
detection means for detecting at least one of position, direction, attitude and movement of said external apparatus; and
5 data transmission means for transmitting detection result data acquired based on detection results by said detection means to said mobile communication terminal by wired or wireless non-public short-range communication.
- [2] An external apparatus for mobile communication terminal according to claim 1, wherein said detection means includes angle detection means for detecting an angle against
10 the standard angle around a virtual axis leading to a predetermined direction.
- [3] An external apparatus for mobile communication terminal according to claim 1 or 2, wherein said detection means includes acceleration detection means for detecting acceleration in a predetermined direction working on said external apparatus.
- [4] An external apparatus for mobile communication terminal according to claim 1, 2
15 or 3, further comprising key operation means having keys used by users, wherein said data transmission means transmits key operation signals from said key operation means and said detection result data to the mobile communication terminal by non-public communication using flexible communication cable or wireless non-public communication.
- 20 [5] An external apparatus for mobile communication terminal according to claim 1, 2 or 3, being configured to be freely attached to and removed from a memory card slot provided in said mobile communication terminal.
- [6] An external apparatus for mobile communication terminal according to claim 5, being configured to be completely received in said memory card slot when said external
25 apparatus is attached to the said memory card slot.

[7] A mobile communication terminal comprising application program execution means for executing an application program with detection result data acquired based on detection results by detection means for detecting at least one of position, direction, attitude and movement, in a main body of said mobile communication terminal, said
5 mobile communication terminal being characterized by comprising:

said external apparatus for mobile communication terminal according to claim 1, 2 or 3; and

data reception means for receiving detection result data transmitted from said external apparatus for mobile communication terminal by wired or wireless non-public
10 short-range communication, in the main body of said mobile communication terminal; wherein

said application program execution means executes said application program with detection result data received by said data reception means.

[8] A mobile communication terminal comprising application program execution
15 means for executing an application program with detection result data acquired based on detection results by detection means for detecting at least one of position, direction, attitude and movement, in a main body of said mobile communication terminal, the mobile communication terminal being characterized by comprising:

said external apparatus for mobile communication terminal according to claim 4;
20 and

data reception means for receiving the detection result data transmitted from said external apparatus for mobile communication terminal by non-public communication using a flexible communication cable or wireless non-public communication, in the main body of said mobile communication terminal; wherein

25 said application program execution means uses detection result data and key

operation signals received by said data reception means and executes a game application program that proceeds in accordance with said detection result data and said key operation signals.

[9] A mobile communication terminal comprising application program execution
5 means for executing an application program with detection result data acquired based on detection results by detection means for detecting at least one of position, direction, attitude and movement, in a main body of the mobile communication terminal, said mobile communication terminal being characterized by comprising:

said external apparatus for mobile communication terminal according to claim 5
10 or 6;

a memory card slot that a memory card can be attached to be freely attached to and removed from, in the main body of said mobile communication terminal; and

data reception means for receiving the detection result data transmitted from said external apparatus for mobile communication terminal attached to said memory card slot
15 by wired or wireless non-public short-range communication, in the main body of said mobile communication terminal; wherein

said application program execution means executes said application program with detection result data received by said data reception means.

[10] An external display system for mobile communication terminal comprising said
20 mobile communication terminal according to claim 7, 8, or 9 and an external display device for displaying images based on image signals output from said mobile communication terminal, said external display system for mobile communication terminal being characterized by that said mobile communication terminal is comprised of image output means for outputting image signals for displaying screen images corresponding to
25 contents of said application program executed by said application program execution

means, to said external display device.